This demonstration is to show the participants, that we can easily use the existing Web services by generating a stub from the WSDL file.

Follow these steps to show the demo.

1. Go to http://www.xmethods.com. You will see recent Web services.

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spider-web	RPC	<u>Try It</u>	JavaPortal News	1	nfo News on Java
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Click on the Full List link to see the complete list of Web services. For the demonstration use the Barnes and Noble Price Quote Web service. Click on the Barnes and Noble Price Quote link.

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ut	RPC	<u>Try It</u>	Dr.Bob's Programming Clinic Headlines	News headlines on six topics.
ut	RPC	<u>Try It</u>	<u>Number To Words (in Dutch)</u>	Converts Numbers to Dutch words
ut	RPC	<u>Try It</u>	Romulan Numbers XLII	Convert roman numbers <-> digital n
:o.com	DOC	<u>Try It</u>	<u>ElectronicProductsFinder</u>	Electronics product finder.
o.com	DOC	<u>Try It</u>	VideoGamesFinder	Video game product finder.
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o.com	DOC	Try It	CustomNewsFeedinXMLFormat	Web service interface to Moreover N
karori.co.nz	RPC	Try It	Discordian	Converts dates
	RPC	Try It	Who Is	Implementation of the whois protocc
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oft.com	RPC	Try It	Agni Find MP3	Finds MP3 files on the Internet.
ushtrust.org.uk	RPC	Try It	Alan Bush Compositions	Interface to the Alan Bush Composit
ta.com	RPC	Try It	EDGAR Search	Searches SEC's EDGAR database.
iods.net	RPC	Try It	Weather - Temperature	Current temperature in a given U.S. z
iods.net	RPC	<u>Try It</u>	Barnes and Noble Price Quote	Returns price of a book at BN.com gi number.
iods.net	RPC	Try It	Currency Exchange Rate	Exchange rate between any two curr
iods.net	RPC	Try It	California Traffic Conditions	California highway conditions.
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Note: This service may not be available at times, since it is an external service. You can show the demo with any other service implemented with RPC style.

2. You will see information about the Web service. The location of the WSDL will be shown. You can make a note of the URL given, which is <u>http://www.xmethods.net/sd/2001/BNQuoteService.wsdl</u>.

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Try It		
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SOAP Binding	BNQuoteBinding	
Key	uuid:0A7B703B-45F0-28F6-55E9-93C04AAF609E	
Owner:	xmethods.net	
For more Info:		
Description:	Returns price of a book at BN.com given an ISBN number.	
Done		

- 3. The next step is to generate the stub file for this Web service using Oracle JDeveloper 10g.
- 4. Create a workspace, extws.jws, and project in JDeveloper.
- 5. After creating the workspace and project, create the stub file for the Web service as shown below.

Right click on the project and select New.

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You will see a frame as shown below. Select Web Services from Business Tier node under Categories and choose Web Service Stub/Skeleton from Items. Click the OK button.



You will see the 'Web Service Stub/Skeleton Wizard'. Click the Next button.



Provide the URL for the WSDL file, check the Generate Main Method Into Stub checkbox, and click the Next button.

🕹 Generate Web Servic	e Stub/Skeleton - Step 1 of 2: Select Web Service Description
	Enter the WSDL document location and choose the files to be generated from it.
	http://www.xmethods.net/sd/2001/BNQuoteService.wsdl
	Browse UDDI
	🔽 Generate Client-Side Stubs
	🔽 Generate Main Method Into Stub
	Generate Basic HTTP Authentication Code
	Generate Basic Proxy Authentication Code
	Generate Server-Side Skeletons
	Import WSDL URL Into Project
	Default Package: mypackage1
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

The frame displays the operations of the Web service. By default all the operations are chosen, deselect the methods that you do not want to include. getPrice() is the method in the BNQuoteService Web service.

🔷 Generate Web Service	e Stub/Skeleton - Step 2 of 2: Select Stubs/Skeletons to Ger	nerate	×
	Client-Side Stubs Image: Strain String (java.lang.String) : java.lang.Float		
Č5	Service <u>N</u> ame:		
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The BNQuoteServiceStub.java is created.

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System - Navigator 🕂 🗙 💀 BNQuoteServiceStub.java	2 *
package mypackagel;	
workspaces import oracle.soap.transport.http.OracleSOAPHTTPConnection;	
import org.apache.soap.encoding.SOAPMappingRegistry;	
import java.net.URL;	
import org.apache.soap.rpc.Call;	
<pre>import org.apache.soap.Constants;</pre>	
<pre>import java.util.Vector;</pre>	
import org.apache.soap.rpc.Parameter;	
import org.apache.soap.rpc.Response;	
import org.apache.soap.Fault;	
import org.apache.soap.SOAPException;	
import java.util.Properties;	
/**	
* Generated by the Uracle JDeveloper 10g Web Services Stub/Skeleton Ge	:ne
* Date Created: Thu Mar 25 14:17:41 157 2004	
* WSDL URL: http://www.xmethods.net/sd/2001/BNQuoteService.wsdl	
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6. Invoke the getPrice operation from the main method of the stub file as shown below.

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⊡ Project1.jpr 	<pre>public static void main(String[] args) {</pre>
	// Add your own code here.
	System.out.println(stub.getPrice("0439139597"));
	3
	catch(Exception ex)
	{ ev nrintStackTrace() •
	}
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7. In the System-Navigator, right click on the BNQuoteServiceStub.java and select Run.

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ex.printStackTrace();	
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8. You will see the response from the Web service in the log window as shown in the screenshot.

